

May 23, 2005  
Case No.: GP-302119 (2760/59)  
Serial No.: 10/083,718  
Filed: February 26, 2002  
Page 6 of 9

44. (Previously Presented) The apparatus of claim 34 wherein the reflector is separate and distinct from the driven element.

-- REMARKS --

**Claims 21-41 and 43 were rejected under 35 U.S.C. §102(e) as anticipated by United States Patent 6,326,922B1 to Hegendoerfer.**

The §102(e) rejection of claims 21-41 and 43 is traversed. In order to maintain this §102(e) rejection, each and every element of the rejected claims must be disclosed in at least as great detail as claimed by the reference. Because *Hegendoerfer* does not disclose "wherein the driven element is separate and distinct from the at least one parasitic element" as recited in independent claims 21 and 34, the rejection is misplaced and should be withdrawn.

The Examiner continues to mistake the structures disclosed by *Hegendoerfer* with the claimed structures. *Hegendoerfer* specifically states that the dipole feed points 112 and 114 are connected to the radiator 122 and the LNA 118 "[s]urface mount device (SMDs) are used to *facilitate the connection between the symmetrical dipole feed points 112 and 114 of the radiator 122 and the LNA 118.*" See, column 4, line 14-18 (emphases added).

Furthermore, in paragraph 5 of the March 22, 2005 office action, the Examiner refers to structure 122 of *Hegendoerfer* as *both* the "driven element" and the "dipole". Instead, *Hegendoerfer* discloses that 122 is *actually* a radiator. See, column 4, line 16. The Examiner further references *Hegendoerfer* 102 as a "driven element" although *Hegendoerfer* does not disclose what 102 is, and discloses that numbers 112 and 114 (i.e., the "dipole feed points") are to be driven. See, column 4, line 19.

These differences are illustrated graphically by comparing the structure actually disclosed by *Hegendoerfer* and the structure as disclosed by the instant application.

May 23, 2005

Case No.: GP-302119 (2760/59)

Serial No.: 10/083,718

Filed: February 26, 2002

Page 7 of 9

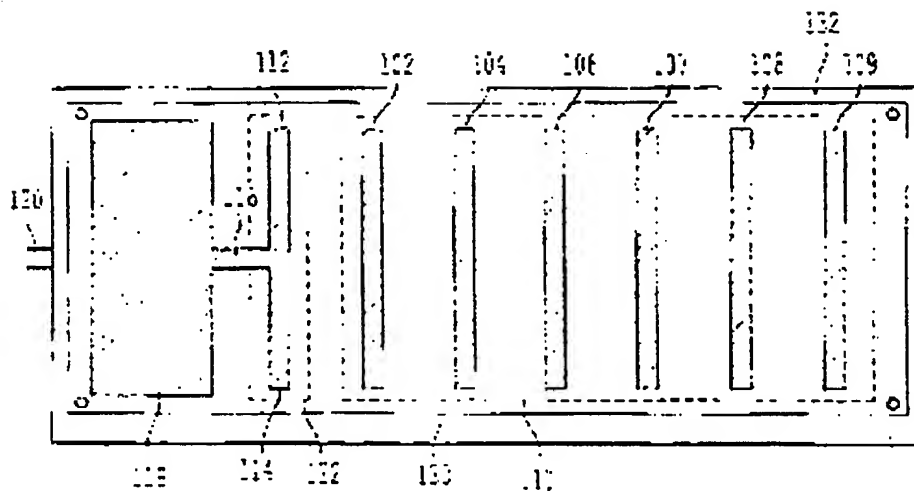
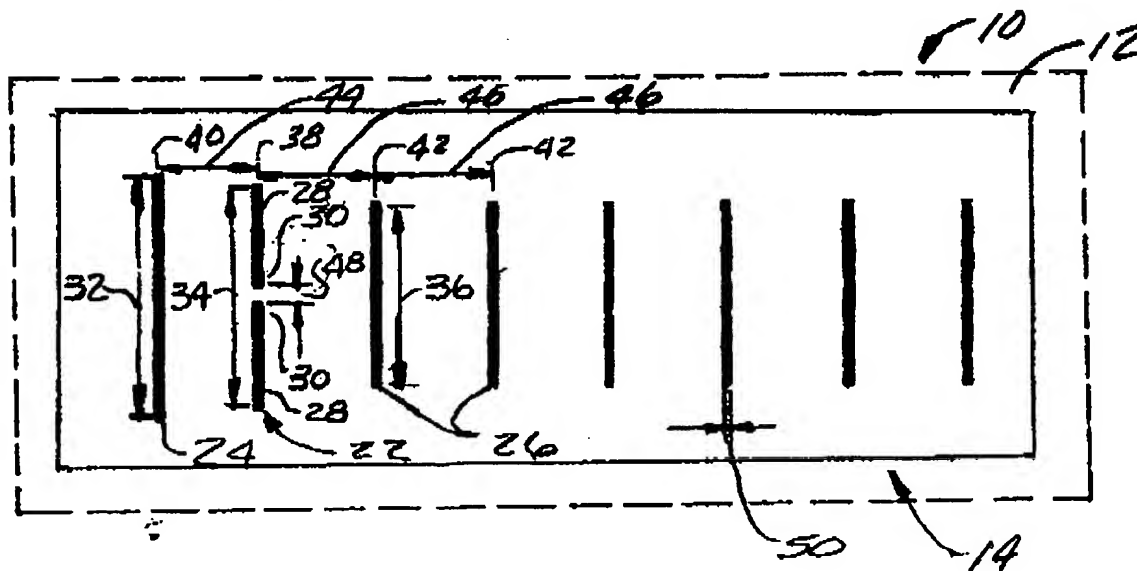
FIG. 4 of *Hegendoerfer* is reproduced below.

FIG. 1 of the instant application is reproduced below:



May 23, 2005  
Case No.: GP-302119 (2760/59)  
Serial No.: 10/083,718  
Filed: February 26, 2002  
Page 8 of 9

As noted, the instant claims require that the "driven element" (i.e. 22) is separate and distinct from the at least one "parasitic element" (i.e. reflector 32). See, specification of United States Patent Application 10/083,718 at page 3, lines 17-19. In contrast, FIG. 4 of *Hegendoerfer* unequivocally shows that "reflector and LNA 118" connects, via 116, to the dipole 112/114.

Additionally, claims 24, 37, and 43 require that the "first dipole element and the second dipole element have adjacent ends spaced apart at equal distances on either side of the longitudinal axis of the substrate." First, as illustrated by FIG. 4 above, *Hegendoerfer* discloses a single dipole 112/114. Second, *Hegendoerfer* does not show that the two elements are spaced apart at equal distances on either side of the longitudinal axis of the substrate. (see, 18 of FIG. 2 from the instant application). As shown in FIG. 1 of the instant application above, dipole elements 28 extend collinearly in opposite directions and have adjacent ends 30 that are spaced apart at equal distances on either side of the longitudinal axis. Therefore, at a minimum, claims 24, 37, and 43 are each patentable over *Hegendoerfer* for at least this additional reason.

As *Hegendoerfer* does not disclose each and every element of the claims, the §102(e) rejection must fall.

Withdrawal of the rejections to claims 21 and 34, as well as claims 22-33 and 35-41 and 43 depending therefrom, is requested.

**Claims 42 and 44 were rejected under 35 U.S.C. §103(a) as unpatentable over United States Patent 6,326,922B1 to Hegendoerfer and United States Patent 5,220,335 to Huang.**

The §103(a) rejection of claims 42 and 44 as unpatentable over *Hegendoerfer* in view of *Huang* is traversed. In order to maintain this rejection, each and every element of the claimed invention must be taught or suggested in at least as great detail as claimed.

Claims 42 and 44 depend directly from claims 21 and 34 respectively, and are therefore patentable over the prior art for at least the same reasons as claims 21 and 34

Withdrawal of the rejections to claims 42 and 44 is requested.

May 23, 2005  
Case No.: GP-302119 (2760/59)  
Serial No.: 10/083,718  
Filed: February 26, 2002  
Page 9 of 9

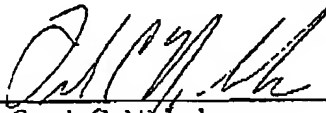
**SUMMARY**

Examiner Chen's rejections of claims 21-44 have been obviated by the remarks herein. The Applicant respectfully submits that claims 21-44 fully satisfy the requirements of 35 U.S.C. §§ 102, 103 and 112. In view of the foregoing, favorable consideration and early passage to issue of the present application is respectfully requested. If any points remain in issue that may best be resolved through a personal or telephonic interview, Examiner Chen is respectfully requested to contact the undersigned at the telephone number listed below.

Dated: May 23, 2005

Respectfully submitted,  
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